

LEDYANKIN, D. P., Doc Tech Sci -- (diss) "Study of the transition processes in combined electrical systems by vector methods." Moscow, 1980. 52 pp; (Ministry of Higher and Secondary Specialist Education RSPN, Moscow Order of Lenin Power Inst); 250 copies; price not given; list of author's work on pp 51-52 (20 entries); (KL, 24-60, 131)

VENIKOV, V.A., prof., doktor tekhn.nauk, laureat Leninskoy premii;  
GORSKIY, Yu.M., inzh.; LEDYANKIN, D.P., dotsent, kand.tekhn.nauk

Use of an electromechanical filter in generator re-synchronization systems. Izv. vys. ucheb. zav.; energ. 3 no. 12:1-8 D '60.  
(MIRA 14:2)

1. Moskovskiy ordena Lenina energeticheskiy institut.  
Predstavlena kafedroy elektricheskikh sistem.  
(Electric filters) (Electric generators)

LEDYANKIN, D.P., kand.tekhn.nauk, dots.

Intermittent synchronous-asynchronous operating conditions in a network containing a generator and a receiving system. Izv. vys. ucheb. zav.; energ. 3 no.11:12-20 N '60. (MIRA 13:12)

1. Ivanovskiy energeticheskiy institut imeni V.I.Lenina. Predstavlenia kafedroy elektricheskikh setey, sistem i TBN Ivanovskogo energeticheskogo instituta im.V.I.Lenina.  
(Electric networks)

S/143/61/000/011/001/009  
D223/D302

AUTHORS: Gorskiy, Ya. M., Engineer, and Ledynakin, D. P.,  
Doctor of Technical Sciences

TITLE: The working of a resynchronizer made on the principle  
of an electromechanical filter in the case of mul-  
tiple connections between a generating station and  
power station

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Energetika,  
no. 11, 1961, 5 - 11

TEXT: Reference is made to a previous work by the authors and V.  
A. Venikov (Ref. 1: Izv. vuzov SSSR - Energetika, no. 12, 1960),  
where an electromechanical filter was described; its application  
for complex connections of a generating station with the power  
system is discussed. The case considered is that of a generating  
station (represented by an equivalent generator) connected with  
two parts of a system (represented by two equivalent generators).  
The output voltages of the filters are derived; the frequencies of ✓  
Card 1/2

The working of a ...

S/143/61/000/011/001/009  
D223/D302

the output voltages give an indication of the mean slip between the rotors of equivalent generators. Therefore, the output signals in the frequency estimation can be used for control and detection of non-synchronous running of the machines of the system with respect to the generators of the station. The amplitudes of the output signals cannot be used for this purpose. The use of a filter as a transmitter for the measuring unit of a resynchronizer is considered next. The unit can be based on three possible principles: Amplitude-pulse, time-pulse and number-pulse comparison. Circuit diagrams of all three schemes are given and discussed. By the two first methods the magnitude of slip can be found. The measurement by the number-pulse method is made in binary system. The minimum slip which can be measured by a 6-digit counter is 0.8%. There are 4 figures and 5 Soviet-bloc references.

ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut  
(Moscow Order of Lenin Institute of Power Engineering)

SUBMITTED: July 18, 1960  
Card 2/2

GORSKIY, Yu.M., inzh.; LEDYANKIN, D.P., doktor tekhn.nauk

Problem concerning the operation of a resynchronizer based on the principle of an electromechanical filter in the presence of complex couplings between the generating station and the electric power system. Izv.vys. ucheb. zav.; energ. 4 no.11:5-11 N '61.  
(MIRA 14:12)

1. Moskovskiy ordena Lenina energeticheskiy institut.  
(Electric power distribution) (Electric filters)

LEDYANKIN, D.P., doktor tekhn.nauk

Approximate account of regulated synchronous machines in the  
calculation of the static stability of electric power systems.  
Izv.vys.ucheb.zav.; energ. 5 no.4:26-32 Ap '62. (MIRA 15:5)

1. Ivanovskiy energeticheskiy institut imeni V.I.Lenina. Predstavlena  
kafedroy elektricheskikh setey, sistem i tekhniki vysokikh napryazheniy.  
(Electric power distribution) (Electric machinery, Synchronous)

LEOYANKIN, D. A.

Rocking of generator rotors in an electrical system in synchronous operation. Trudy MEI no. 543339-360 '64.

(MIR- 17.12)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929120

LEDYANKIN, D.P. (Ivanovo); AGEYEV, A.I. (Ivanovo)

Characteristics of an equivalent generator for a group of regulated  
machines. Izv. AN SSSR. Energ. i transp. no.2:90-100 Mr-Ap '65.  
(MIRA 18:6)

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929120C

LEDYASHOV, O.A.

Effect of the moment of inertia of rotating masses on the irregularities of turbodrill shaft rotations. Izv. vys. ucheb. zav.; neft' i gaz 3 no.9:21-28 '60. (MIRA 14:4)

1. Grozenskiy neftyanoy institut.  
(Turbodrills)

LEDYASHOV, O.A.

Effect of the structural and mechanical properties of drilling  
fluids on the performance of a turbodrill turbine. Izv. vys.  
ucheb. zav.; neft' i gaz 4 no.4:21-28 '61. (MIRA 15:5)

1. Groznenskiy neftyanoy institut.  
(Turbodrills) (Oil well drilling fluids)

LEDYASHOV, O.A.

Study of the joint operation of a turbine and five turbodrills  
using clay muds. Izv.vys.ucheb.zav.; neft' i gaz 4 no.7:35-42  
'61. (MIRA 14:10)

1. Groznenskiy neftyanoy institut.  
(Oil well drilling fluids) (Turbodrills)

LEDYASHOV, O.A.; KATRYSHEV, I.Ye.

Variation in the indices of the simultaneous operation of a  
pump and a turbodrill turbine when using heavy muds. Izv.vys.  
ucheb.zav.; neft' i gaz 7 no. 1:17-22 '64. (MIRA 17:7)

1. Groznenskiy neftyanoy institut.

MITROFANOV, M.G.; LEDYASHOVA, G.Ye.; BEREZHNova, M.I.; KYAZIMOV, A.A.;  
FEDOTOVA, A.F.; STEPANYAN, E.G.

Test results of an experimental plant rotary disk contactor.  
Trudy GrozNII no. 15:213-219 '63. (MIRA 17:5)

LEDYAYEV, A. D.

PA 67T74

USSR/Medicine - Horses, Diseases  
Medicine - Anemia, Infectious

Feb 1948

"Clinical Manifestations of Equine Infectious Anemia,"  
A. I. Protasov, A. D. Ledyayev, Cand Vet Sci, Chair of  
Epizootal, Leningrad Vet Inst, 3 pp

"Veterin" No 2, P 4

Studies conducted to clarify the epizootic situation  
of infectious anemia in horses with the intent to dis-  
cover more efficient methods for diagnosing and treat-  
ing this disease.

67T74

CHERNIAK, V. Z., Prof., LEDIAEV, A. D., Lect.

Leningrad Veterinary Inst.

"On the method of determining the resistance of the blood  
carrying vessels in infectious anemia of horses."

SO: Vet. 2<sup>4</sup> (11) 1948, p. 12

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APPROVED FOR RELEASE

I EDYaEV, A.L.

23543. SOSTGYalIIYe PRACTIVSTICILNYaChNCCC IMMUNITATA U NOICLNYaKa,  
NARODIVSHEG(SYa CT DZERKIZIROVANNYKh I ATOK. SECRNIK NAUCH.  
TRUDCV (LENINGG. VET. IM-T), VYP. 10, 1949,c. 27-94

SO: LETCPIS NO.31, 1949.

LEDYAYEV, A. D.

PROTASOV, A. I. AND LEDYAYEV, A. D. Strangles of horses. Leningrad. Leningrad Publishing House, 1952. 24 pages. Price 30 kopeks, 3,000 copies.

So: Veterinariya; 30 (3); March 1952; Uncl.  
TABCON

LEDYAYEV, A. D.

LEDYAYEV, A. D. AND GORDEYEV, I. F. Rabies of animals and the measures of the fight against it. Petrozavodsk, State Publishing House of the Karelo-Finnish SSR, 1952. 27 pages with illustrations. (Administration of Agricultural Propaganda, Ministry of Agriculture).

So: Veterinariya; 30; (3): March 1953; uncl.  
TABCON

LEDYAYEV, A.D.

A.I. Protasov, A.D. Ledyayev -

"Hoof and Mouth Disease" Moscow, Leningrad, Agricultural Publishing House,  
1953.

"Hoof Disease in Sheep" Leningrad, Leningrad Pub. House, 1953.

Veterinariya, Vol 31, No 7, 1954.

LEDYAYEV, A.D.

A.D. Ledyayev and A.I. Protasov, Yashchur [Foot-and-Mouth Disease],  
Sel'khozgiz, 3 sheets, 1953

This brochure acquaints the livestock workers of kolkhozes and sovkhozes  
with the methods of preventing, recognizing, and controlling foot-and-mouth  
disease, an infectious disease of cattle and swine.

SO: U-6472, 15 Nov 1954

LEDYAYEV, A.D., kand. veter. nauk; RAKHMANOV, A.M., kand. veter. nauk

Diagnosis of Aujeszky's disease in swine. Veterinariia zh. no.1:  
41-43 Ja '64. (MIRA 17:3)

1. Semipalatinskiy zooveterinarnyy institut.

AUTHOR: Ledyayev, V.N., Engineer SOV-128-58-8 5/21

TITLE: A Mechanism for Opening and Closing Cupola Bottoms ('Mekhanizm dlya otkryvaniya i zakryvaniya dnishcha vagranek')

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 8, p 10 (USSR)

ABSTRACT: The described mechanism is used at Syzranskiy zavod tyazhelego mashinostroyeniya (Syzran' Heavy Machine Building Plant) for raising and lowering cupola bottoms after heats. The mechanism consists of a pneumatic piston in a cylinder fixed in the anchor plate under the cupola. The conic cupola bottom carried on the top end of the piston rod makes the heat remainders (iron and bottom coke) slide down the sides of the bottom and break up into pieces when the cupola is opened, e.g. the bottom is lowered. The remains are drenched by a water shower mounted under the cupola and cannot sinter into a big clod which would be difficult to remove. The mechanism is coming into use at other Soviet plants ("Krasnyy Kotel'shchik" in Taganrog, the Uralmashzavod, Elektrostal' Plant, Plant imeni Frunze in Sumy, Enamelling Plant imeni Artem in Lugansk, and others. There is 1 diagram.

1. Blast furnaces--Equipment    2. Blast furnaces--Operation

Card 1/1

LEDYAYEV, V.V., inzh. (Grdzhonikidze)

Transmission of a substation fault signal using a telephone line.  
Energetik. 13 no.7:27-28 Jl '65.

(MIRA 18:S)

LEDYaYeVA, Ye. M.

23535. VLIYaNIE RAZLICHNOGO KORMLENIYA NA IZMENENIYE VELICHINY YaLER  
KLETOK PEChENI. SBORNIK NAUCH. TRUDOV (LENINGR. VET. IN-T), VYP, 10,  
1949, c. 173-84.

SO: LETOPIS' NO. 31, 1949

LEDYAYEVA, YE. M.

"Concerning the amitoses in liver cells in mammals", (CBS, Department of Histology and Embryology), Collected Works No. 4, of Leningrad Veterinary Institute USSR Ministry of Agriculture, P 242, Sel'khozgiz, 1954.

LEDYAYEVA, Ye.M.

Stimulation of mitotic divisions in hepatic cells. Arkh. anat.  
gist. i embr. 31 no.2:24-26 Ap-Je '54. (MLRA 7:8)

1. Iz kafedry gistologii i embriologii (zav. prof. Z.S.Katsnel'son)  
Leningradskogo veterinarnogo instituta.  
(LIVER, anatomy and histology,  
\*mitosis, eff. of vacc. in rabbits)  
(CELL DIVISION,  
\*mitosis of liver cells, eff. of vacc. in rabbits)

KATSNEL'SON, Z.S.; LEDYAYEVA, Ye.M.; ALEKSANDROVA, V.P.

Fetal adrenal cortex in swine. Dokl. AN SSSR 151 no.1:201-202  
Jl '63. (MIRA 16:9)

1. Leningradskiy veterinarnyy institut. Predstavлено академиком  
N.N.Anichkovym.

(ADRENAL CORTEX) (FETUS)

SHABEL'NIKOV, G.P., kand.ic'dm.nau'; LISOVSKIY, G.D., gorn.inzh.; AUDENKO,  
A.M., gorn.inzh.; LEDYAYKIN, S.D., gorn.inzh.

Single-state inclined top slicing and caving system. Gov.zhur. no.6:  
23-26 Je '60. (MIEA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov,  
Ust'-Kamenogorsk (for Shabel'nikov, Lisovskiy). 2. Salair'skoye rudo-  
upravleniye (for Audenko, Ledyaykin).  
(Mining engineering)

SHABEL'NIKOV, G.P.; LISOVSKIY, G.D.; STANKEVICH, I.M.; RUDENKO, A.M.;  
LEDYAYKIN, S.D.; ZEMLYANOV, V.P.

Testing a system of sublevel caving with breaking and drawing  
of the ore in inclined layers. Gor. zhur. no.6:23-24  
Je '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh  
metallov, Ust'-Kamenogorsk (for Shabel'nikov, Lisovskiy,  
Stankevich). 2. Salairskiy rudnik (for Rudenko, Ledyaykin,  
Zemlyanov).

(Salair region—Mining engineering)

LEDZIAN, A.

LEDZIAN, A. Stanislaw Sniegowski speaks. p. 17.

Vol. 7, no. 1. Jan. 1956

GOSPODARKS ZBOZOWA

AGRICULTURE

Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, Feb. 1957

LEDZIAN, J.

What we have achieved owing to competition. p. 23.

GOSPODARKA ZBOZOWA, Vol. 7, no. 2, Feb. 1956.

POLAND

SOURCE: EAST EUROPEAN ACCESSIONS LIST LC Vol. 5, no. 7, August 1956.

LEDZINSKA, U.

SCIENCE

Periodicals: ROCZNIKI CHEMII. Vol. 31, no. 2, 1957.

LEDZINSKA, U. The solubility of cadmium ferrocyanide in water. p. 457.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 4,  
April 1959, Unclass.

LEDZINSKIY, V., arkitektor

Mechanized granaries, Sel'. stroi. 9 no.3:16-17 My-Je '54.  
(Granaries) (MIRA 13:2)

LEDZINSKIY, V., arkitektor.

Results of the competition for standard plans for livestock farms.  
Gor. i sel'. stroi. no.2:14 F '57. (MIRA 10:5)  
(Architecture--Designs and plans--Competitions)  
(Farm buildings)

LEDZINSKIY, V., arkhitektor

Farmhouses on collective farms in Kazakhstan. Zhil.stroi. no.10:  
21-23 '58. (MIRA 12:6)  
(Kazakhstan--Farmhouses)

JANOSSY, Lajos; LEE, Anna; ROZSA, Pal

Estimate of the parameter of the Coulomb scattering on the  
ground of measurements performed in photoemulsions. Mat kut  
kozl MTA 6 Series B no.4:467-497 '61.

l. Kozponti Fizikai Intezet (for Janossy).

LEE, Anna

Some extreme problems of finite bodies. Acta mat Hung 13 no.3/4:  
235-243 '62.

1. Mathematisches Forschungsinstitut der Ungarischen Akademie der  
Wissenschaften, Budapest. Vorgelegt von P.Turan.

LEE, T.

Weak interactions and nonpermanence of parity. p. 13.

FIZIKAI SZEMLE. (Eotvos Lorand Fizikai Tarsulat) Budapest, Hungary, Vol 9, No. 1,  
Jan. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959  
UNCL

LEE, T.D.

Weak interactions and the nonconservation of the parity; a Nobel lecture, 1957. Fiz szemle 9 no.1:13-18 Ja '59.

K

POLAND/Optics - Spectroscopy.

Abs Jour : Ref Zhur Fizika, № 11, 1959, 26106  
Author : Les, Z., Mrs, Niewodniczanski, H.  
Inst : Jagiellonian University, Krakow, Poland  
Title : Intensity Ratios of Spectral Lines in CdI Triplets at Different Conditions of Excitation.  
Orig Pub : Acta phys. polon., 1958, 17, № 5, 365-368

Abstract : In various sources of light (electrodeless discharge in vapor of pure cadmium and in vapors of cadmium in an argon or xenon atmosphere, a hollow cathode in the atmosphere of helium or argon, a spark, arc, or high-frequency discharge) the ratios of the intensities of the lines of the triplet of CdI (5086, 4800, and 4678 Å) are different, depend on the excitation conditions in the source, and differ in all cases from the theoretical relation.

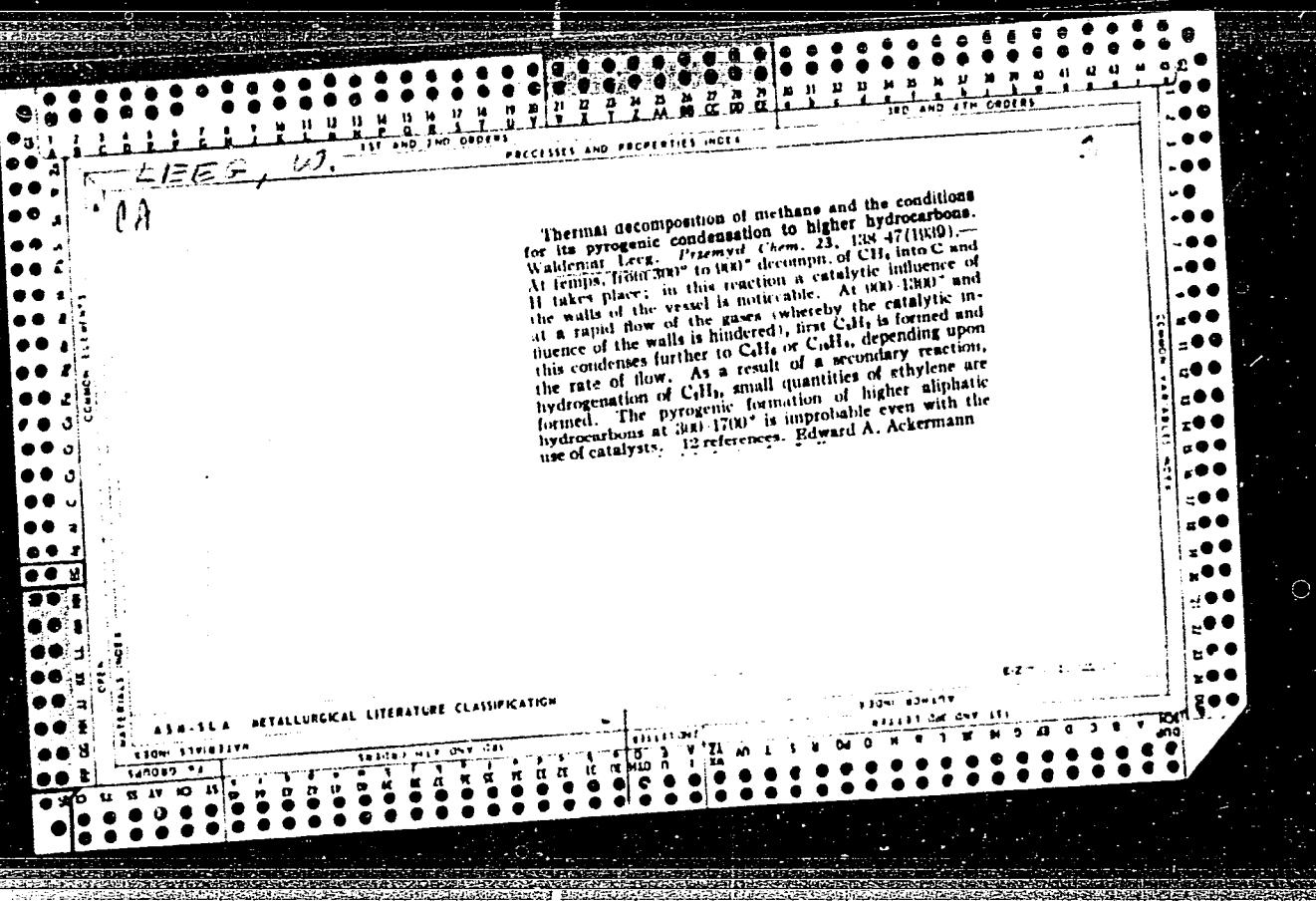
Card 1/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929120  
POLAND/Optics.-Spectroscopy.

Abs Jour : Ref Zhur Fizika, № 11, 1959, 26106

The results of the measurements in a hollow cathode are reported in greater detail. For the ultraviolet triplet of CdI (2868, 2775, and 2734 Å) at different pressures of inert gas and different discharge currents, the ratios of the intensities remains constant and is in agreement with the theoretical calculation. -- N.M. Yashin

Card 2/2



POLAND / Chemical Technology, Chemical Products and  
Their Application, Part 3. - Fermentation  
Industry. H

Abs Jour: Ref Zhurnal Khimiya, No 18, 1958, 62530.

Author : W. Leeg, W. Wnukowski.

Inst : Not given.

Title : Upon The Necessity To Reform The Alcohol-  
ometry in People's Republic of Poland.

Orig Pub: Normalizacja, 1957, 25, No 12, 626 - 631.

Abstract: The regulations concerning alcoholometry in  
force in various countries are discussed and the  
necessity of revising the regulations in force  
in Poland is substantiated.

Card 1/1

LEELLOSSY, Kalman, fomernok

Connection of the Sarkad Sugar Factory to the country's  
electric networks. Cukor 12 no.10:279-280 0 '59.

LEEL-OSSY, L.

Data on the histopathology of multiple myelin sheath tumors (Recklinghausen's disease neurofibromatosis). Ideg. szemle 11 no.3:89-96 June 58.

1. A debreveni Orvostudomanyi Egvetem Ideg- es Elmegyogyaszati Klinika  
(Igazgato: Dr. Juhasz Pal gyet. tanar) kozlemenye.  
(NEUROFIBROMATOSIS, pathol.  
histopathol. (Hun))

LEEL-OSSY, Lorant, Dr.; TOROK, Pal, Dr.

Malignant melanoma metastasizing to the central nervous system.  
Ideg. szemle 12 no.5:136-147 May 59.

1. A Debreceni Orvostudomanyi Egyetem Ideg-Elmeklinikajának  
(igazgató: dr. Juhasz Pal egyetemi tanár) kozlemenye.

(MELANOMA, case reports

malignant, metastatic to CNS (Rus))

(CENTRAL NERVOUS SYSTEM, neoplasms

metastatic from malignant melanoma (Rus))

LEEL-OSSY, Lorant, dr.; PAP, Zoltan, dr.

Subacute (intermittent) course in a case of coal gas poisoning. Ideg.  
szemle 15 no.1:16-24 Ja '62.

1. Hajdu-Biharmegyei Tanacs Korhaza (Igazgato foo.: Manyi Geza dr.)  
Ideg-elmeosztalyanak (O. v. foo.: Pap Zoltan dr.) kozlemenye, Debrecen.

(CARBON MONOXIDE toxicol)

LEEL-OSSY, Lorant, dr.

Primary hemorrhages into the ocular chambers. Ideggyogy szemle 17  
no.8:230-237 Ag '64.

1. A Hajdu-Bihar megyei Tanacs Korhaza (Ig. foorvos: Dr. Manyi Geza);  
Ideg-elmeosztalyanak (O. vez. foorvos: Dr. Pap Zoltan) es a Debreceni  
O.T.E. Ideg-elmeklinikajának (Prof. Dr. Juhasz Pal) kozlemenye.

Cardiovascular Diseases

HUNGARY

LEEL-OSSY, Lorant, Dr; Hajdu-Bihar Megye Council Hospital (director- chief physician: MANYI, Geza, Dr), Neuro-Psychiatric Ward (chief physician in charge: PAP, Zoltan, Dr) (Hajdu-Bihar Megyei Tanacs Korhaz, Ideg-Elmeosztaly), and Medical University of Debrecen, Neuro-Psychiatric Clinic (director: JUHASZ, Pal, Dr) (Debreceni Orvostudomanyi Egyetem, Ideg-Elmeklinika).

"Clinical Importance of the Circle of Willis (CoW) With Special Emphasis on Its Hypoplasia."

Budapest, Ideggogyaszati Szemle, Vol XX, No 1, Jan 67, pages 11-25.

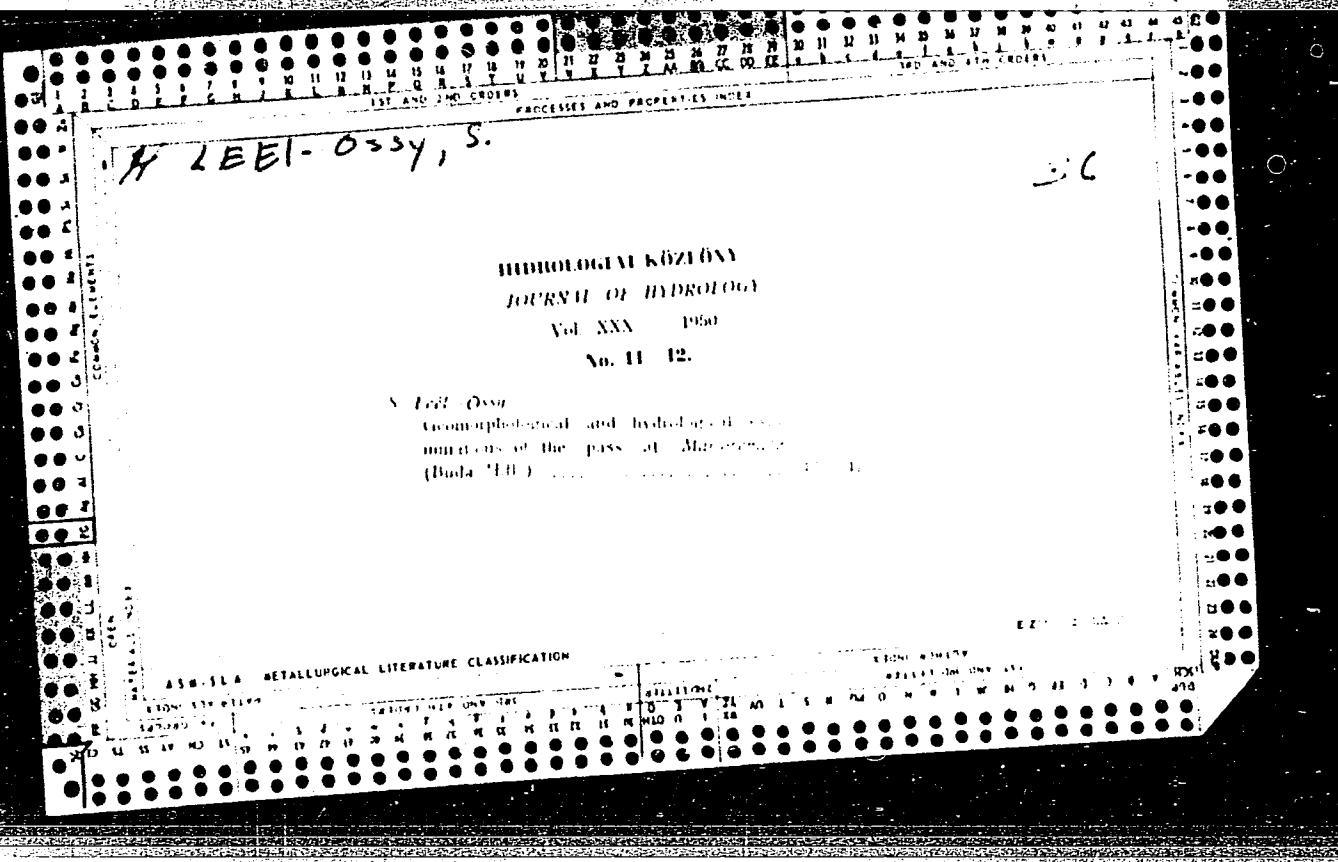
Abstract: [Author's Hungarian summary modified] A detailed anatomical description of the CoW is followed by a report of the incidence of hypoplasia involving its individual branches. In the second part of the article, the dynamic characteristics of the blood circulating in the CoW are used to illustrate the decisive role played by this formation as regulator, distributor and collateral, in the first section of the cerebral circulation. In the third part, the clinical importance of anomalies (chiefly hypoplasia) is emphasized. A study of the brain of 200 individuals, half of whom had died of cerebrovascular disease, confirmed the fact known from the literature that an anomaly of the CoW is twice as frequent in the case of cerebrovascular than in other diseases. The predisposing, preforming, pathoplastic effect of the anomalies in cases of emollient, hemorrhage and thrombosis is discussed in

1/2

LEEL OSSY, S.

Mapping the Kiskohát cave system. p. 256. Vol.4, No.2, 1955. FOLDRAJZI ERTESENTO.  
Budapest, Hungary.

So: Eastern European Accession. Vol 5, No.4, April 1956



LHFL-CSY, S.

"The Well-like Cave at Cserecsenyterei", p. 309, (HIDVICIOGLAI MUSEUM,  
Vol. 33, No. 7/8, July/Aug. 1953, Budapest, Hungary)  
SC: Monthly List of East European Accessions (HEAL), LC, Vol. 4, No. 3,  
March 1955, Uncl.

LEEL-OSSY, Sandor, dr., a foldrajzi tudomanyok kandidatusa.

Karstic areas of Hungary. Foldrajzi ert 9 no.4:490-494 '60.  
(EEAI 10:6)

(Hungary--Karst)

LEEL-OSSY, Sandor, dr., a foldrajzi tudomanyok kandidatusa  
Karst areas of Hungary. Foldrajzi ert 9 no.4:490-494 '60.

LEEL-OSSY, Sandor, dr., tanar, a foldrajzi tudomanyok kandidatusa  
(Budapest)

Geomorphology of the Pilis and Visegrad Mountains. Term  
tud kozl 8 no. 2: 66-68 F '64.

LEEMAN, V. N.

LEEMAN, V. N. "The use of light for the accelerated growing of tree seedlings,"  
Doklady (Mosk. s.-kh. akad. im. Timiryazeva), Issue 9, 1949, p. 70-73  
SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

LEEPNER, M.

VILLAKO, K.; KHANGE, L. [Hange, L.]; KHANSON, Kh. [Hanson, H.];  
LEEPNER, M.

Disorders of the gastrointestinal apparatus in diphyllobothriasis  
[with summary in English]. Med.paraz. i paraz. bol. 26 no.3:  
294-296 My-Je '57. (MIRA 10:11)

1. Iz kafedry biokhimii (zav. - prof. N.Martinson) i kafedry  
propedevtiki vnutrennikh bolezney (zav. N.Raudam) Tartuskogo gosudar-  
stvennogo universiteta.  
(TAPEWORM INFECTIONS, complications  
diphyllobothriasis causing gastrointestinal disord. (Rus))

LEESIK, Kh.P.; BEZBORODOVA, S.I.

Determination of proteins in sputum by the xanthoprotein reaction. Lab. delo no.9:551-553 '64. (MIRA 17:12)

1. Kafedra gospital'noy terapii (zaveduyushchiy - prof. P.K. Bulatov) I Leningradskogo meditsinskogo instituta im I.P. Pavlova i kafedra biokhimii (zaveduyushchiy - prof. S.Ye. Manoylov) Leningradskogo khimiko-farmatsevticheskogo instituta.

LEESMENT, E.

Comparative notes on three types of fallow. p. 110.

SOTSIALISTLIK POLLUMAJANDUS. (Pollandmajanduse Ministeerium) Tallinn,  
Estonia. Vol. 13, no. 3, Mar. 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11,  
November 1959.

Uncl.

LEESMENT, L.

"Swelling disease of farrows."

p. 497 (Sotsialistlik Polulumajandus) Vol. 12, no. 11, Nov. 1957  
Tallinn, Estonia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

LEESMENT, L. ; LAANMAE, L.

Using biomycin on chicken. p. 289.

SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse Ministeerium)  
Tallinn, Estonia. Vol. 13, no. 6, June 1958.

Monthly list of East European Accessions (EEAI) Vol. 9, no. 1, Jan. 1960.

Uncl.

LEEMENT, O.

Removing alien bodies from the intestinal tract of cattle at the Harju District Veterinary Institution. p. 27

SOTSILIKLIK POLLUMJANDUS. POLLUMJANDUS MINISTERIUM.  
Tallin, Hungary. No. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11  
November 1959.

Uncl.

LEESMENT, O.; ARTJOMOV, A.

Infectious diarrhea in swine. p. 316.

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo - Techniczne  
Inżynierów i Techników Sanitarnych, Ogrzewnictwa i Gazownictwa)  
Warszawa, Poland, Vol. 32, no. 6, June 1958.

Monthly list of East European Accession (EFAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

LEETOJA, R.

Perfool as a substitute for glass on hotbeds. p. 30

SOTSILIKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTEERIUM.  
Tallin, Hungary. No. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11  
November 1959.

Uncl.

L E E T S, K.V.

U S S R .

✓Addition of tertiary silyl halides to di vinyl and vinyl acetylene. A. A. Petrov and K. V. Leets (Lensovet Technol. Inst., Leningrad). *Doklady Akad. Nauk S.S.R.* 95, 285-8(1954).—(CH<sub>3</sub>:CH)<sub>2</sub> (0.3 mole), 0.45 mole Me<sub>3</sub>CCl, 0.5 g. ZnCl<sub>2</sub>, and 0.2 ml. concd. HCl kept in a closed flask 7 days yielded about 10 g. *Me<sub>3</sub>CCH<sub>2</sub>CH:CHCH<sub>2</sub>Cl* (I), *d*<sub>4</sub><sup>20</sup> 1.455, *n*<sub>D</sub><sup>20</sup> 1.4466; oxidation with KMnO<sub>4</sub> gave *CICH<sub>2</sub>CO<sub>2</sub>H* and *Me<sub>3</sub>CCH<sub>2</sub>CO<sub>2</sub>H*. I loses almost all its Cl in cold MeOH-KOH, yielding an unsatd. ether, *b*<sub>4</sub> 42-5°, *n*<sub>D</sub><sup>20</sup> 1.4242. A similar reaction with Me<sub>3</sub>CBr and ZnBr<sub>2</sub> gave *Me<sub>3</sub>CCH<sub>2</sub>CH:CICH<sub>2</sub>Br*, *b*<sub>4</sub> 60.5-1°, *n*<sub>D</sub><sup>20</sup> 1.4710, *d*<sub>4</sub><sup>20</sup> 1.1180; Me<sub>3</sub>Cl similarly gave the *iodo* analog, *b*<sub>4</sub> 77-9°, *d*<sub>4</sub><sup>20</sup> 1.3428, *n*<sub>D</sub><sup>20</sup> 1.5150. *HC≡CCH<sub>2</sub>:CH<sub>2</sub>* (0.40 mole) with 0.57 mole Me<sub>3</sub>CCl and 1.3 g. ZnCl<sub>2</sub> in 7 days gave 33 g. *Me<sub>3</sub>CCH<sub>2</sub>CClCH<sub>2</sub>:CH<sub>2</sub>* (II), *b*<sub>4</sub> 43-3.5°, *d*<sub>4</sub><sup>20</sup> 0.9181, *n*<sub>D</sub><sup>20</sup> 1.4732 [KMnO<sub>4</sub> gave *Me<sub>3</sub>CCO<sub>2</sub>H* and a little (*CO<sub>2</sub>H<sub>2</sub>*)]; this heated with di-Me fumarate 20 hrs. to 170°, this gave *di-Me chloro-(tert-butyl)cyclohexenedicarboxylate*, *m.p.* 114-15° (from MeOH). Heating II with KOH-MeOH 1 hr. on a steam bath resulted in loss of 23% of Cl content. Similar reaction with Me<sub>3</sub>CBr gave *Me<sub>3</sub>CCH<sub>2</sub>CB<sub>2</sub>CH<sub>2</sub>:CH<sub>2</sub>* (III), *b*<sub>4</sub> 54.5-5°, *d*<sub>4</sub><sup>20</sup> 1.1767, *n*<sub>D</sub><sup>20</sup> 1.5010, which with di-Me fumarate gave 60% *di-Me bromo(tert-butyl)cyclohexenedicarboxylate*, *m.p.* 120° (from MeOH); treated with KOH-MeOH as above III lost 19% Br content in 1 hr. Higher-boiling products are also formed in this addition; these are believed to be adducts of RX to dimerized or trimerized mols. of the dienes.

G. M. Kostolapoff

LEETS, K.V.

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Conjugated systems. LX. Reactions of vinylethyl-acetylene with tertiary butyl chloride and bromide. A. A. Petrov and K. V. Leets (Leningrad Technol. Inst., Leningrad). Zhur. Osnovy Khim. 26, 497-511 (1955); cf. C.A. 49, 8089a; 50, 25789. —  $\text{Me}_3\text{CCl}$  (30 g.) with 51 g.  $\text{EtC}\text{CCH}_2\text{CH}_3$  in the presence of 3 g.  $\text{ZnCl}_2$ , 0.3 ml. concd. HCl, and 0.8 g. hydroquinone in 40 days gave 55 g. products, which yielded 8.2 g.  $\text{C}_5\text{H}_9\text{Cl}$ , b.p. 72-3°, d<sub>4</sub><sup>20</sup> 0.9028, n<sub>D</sub><sup>20</sup> 1.4737, identified as  $\text{EtC}\text{C}(\text{C}_2\text{H}_5)\text{CH}_2\text{CMe}_2$ , which on ozonolysis gave  $\text{EtCO}_2\text{H}$  and  $\text{Me}_2\text{CCH}_2\text{CO}_2\text{H}$ , isolated as *Na salt hemihydrate*, and amide, m.p. 131.5°. The chloride reacted sluggishly with alc. KOH. There was also obtained 2.5 g.  $\text{C}_5\text{H}_9\text{Cl}$ , b.p. 110-15°, d<sub>4</sub><sup>20</sup> 0.9485, n<sub>D</sub><sup>20</sup> 1.5013, which reacted somewhat more readily with alc. KOH; the high-boiling fractions yielded 1.5 g.  $\text{C}_5\text{H}_9\text{Cl}$ , b.p. 145-55°, d<sub>4</sub><sup>20</sup> 0.9550, n<sub>D</sub><sup>20</sup> 1.5153. Thus the reaction gave products of addn. at the terminal C atom of the olefin bond, the  $\text{CMe}_2$  radical thus adding contrary to the orientation of HX addn.  $\text{Me}_3\text{CBr}$  (45 g.) with 53 g.  $\text{EtC}\text{CCH}_2\text{CH}_3$  in the presence of 4.6 g.  $\text{ZnBr}_2$ , 0.2 g. concd. HBr, and 0.2 g. hydroquinone in 49 days gave 55 g. products, from which were isolated: 11 g.  $\text{EtCBr}(\text{C}_2\text{H}_5)\text{CH}_2\text{CMe}_2$ , b.p. 86-8°, d<sub>4</sub><sup>20</sup> 1.1178, n<sub>D</sub><sup>20</sup> 1.4273. Ozonolysis gave results similar to the above. LXI. Addition of alkyl halides to diene hydrocarbons. Ibid. 1113-21; cf. C.A. 49, 3777f. — Addn. of butadiene, isoprene, and diisopropenyl on one hand and primary, secondary, and tertiary alkyl halides in the presence of Zn halides goes through a complex stepwise process

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M.A. VOLT 2

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PETROV, T. V., L. E. GOLIKOV,  
yielding substances of a general type  $R(C_6H_{5-n})_2Z$ . The  
rate rises from primary alkyls to tertiary alkyls; butadiene  
is at least reactive, diisopropenyl the most reactive. The  
1:1 adducts were obtained only with the least reactive  
components. Their structure as 1,4-adducts was shown by  
oxidation and ozonolysis. Keeping 13 g. com. butadiene  
with 0.25-0.8 mole alkyl halide and 0.37 mole-% Zn halide  
with 0.1 mole concd. H<sub>2</sub>S and 0.1 g. hydroquinone in a  
sealed ampul from 3 hrs. to 17 days at room temp. gave a  
substantially complete reaction when the pressure became  
constant. The following adducts of butadiene and tertiary  
halides are described:  $Me_3CCH_2CH_2CHCl$ , b.p. 47-  
71°, d<sub>20</sub> 0.8790, n<sub>D</sub><sup>20</sup> 1.4456;  $Me_3CCH_2CH_2CHClBr$ , b.p.  
62-64°, 1.1180, 1.4710;  $Me_3CCH_2CH_2CHClI$ , b.p. 77-  
9°, 1.3450, 1.5150;  $Me_3CCH_2CH_2CHCl_2$ , b.p. 86-87°,  
0.8960, 1.4557. The 1st substance with KMnO<sub>4</sub> gave  
 $Me_3CCH_2CO_2H$  and  $CICH_2CO_2H$ ; treatment of the chloride  
with MeOH-KOH gave  $Me_3CCH_2CH_2CHCl_2OMe$ ; reac.  
with 20% CuH<sub>2</sub>Cl, b.p. 42-3°, n<sub>D</sub><sup>20</sup> 1.4242. The addn. of  $Me_3CCl$  to butadiene  
also gave 60%  $C_4H_9Cl$ , b.p. 68-73°, d<sub>20</sub> 0.8374, n<sub>D</sub><sup>20</sup> 1.4643,  
which with KMnO<sub>4</sub> gave  $Me_3CCH_2CO_2H$  and  $(CH_3CO_2H)_2$ ,  
as well as  $C_4H_9Cl$ , b.p. 110-22°, d<sub>20</sub> 0.9098, n<sub>D</sub><sup>20</sup> 1.4700.  
The bromide described above formed in the addn. of  $Me_3CBr$   
was treated with KOH-EtOH, yielding  $Me_3CCH_2CH_2CHClBr$ ,  
b.p. 54, 5-5°, n<sub>D</sub><sup>20</sup> 1.4280. The iodide treated  
with MeOH-KOH gave the Me ether described above.  
Addn. of  $Me_3EtCl$  gave in addn. to the 1:1 adduct above  
a range of fractions from which was isolated  $C_4H_9Cl$ , b.p.  
80-5°, d<sub>20</sub> 0.9057, n<sub>D</sub><sup>20</sup> 1.4706. Addn. of  $Me_3CHBr$ ,  $Me_3CHI$ , and Et<sub>2</sub>Br to butadiene gave after 60-70 days low  
yields of  $R(C_6H_5)_2X$  with  $n$  ranging from 5.9 to 8.3. Iso-  
prene and  $Me_3CCl$  gave in 4 days  $C_4H_9(C_6H_5)Cl$ , undistillable;  
a similar product was formed from the bromide.  
Diisopropenyl gave undistillable  $C_4H_9(C_6H_5)_2Cl$  and Br.

G. M. Kosolapoff

PETROV, A.A.; LEETS, K.V.

Research in the field of conjugate systems. Part 61. Addition of alkyl halides to diene hydrocarbons. Zhur.ob.khim. 26 no.4: 1113-1121 Ap '56.  
(MLRA 9:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.  
(Halides) (Olefins)

LEFFERTS, K. V.

Distr: 4E1,j/4E3d/4E5c(j)

4 May  
23

APPROVED FOR RELEASE: Monday, July 31, 2000

**CIA-RDP86-00513R000929120C**

L E E T S , K . V .

Industrial synthesis of derivatives of terpenes from the  
chemical raw materials. K. V. Leets, V. I. Euchann,  
and A. K. Shumelka (Synthetic Aromatic Factory, Leningrad).  
Mashchino Khimicheskaya Prom., 23, No. 8, 33-5 (1957).  
An app. is described for the synthesis of citral from iso-  
prene. Four references. Vladimir N. Krubensky.

*Legots, P. V.*

Distr: 4E4J/4E3d

New synthesis of I<sub>1</sub> and V. N. Belov, N. A. Davy, S. D.

Kutova, K. V. Lesh, N. S. Podobedova,  
E. S. Shchedrenko, and V. K. Shumilko  
Krem. Tsvetnoye (10057). Treatment of (CMe<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>  
methylbutene, bp 36-40°. This material (250 g.) and 144 g.  
Isoprene in 680 g. CH<sub>2</sub>Cl<sub>2</sub> treated at 15° with 30 ml. 17%  
NaCl in CH<sub>2</sub>Cl<sub>2</sub>, and, after 20 min., with 200 ml. said, add.  
NaCl, yielded 15.8% *methylcitra* chloride, b.p. 70-8°, n<sub>D</sub>  
1.4818, d<sub>4</sub> 0.8305. This (50 g.) and 16.3 g. dry pyridine in 5  
hrs. at 60-5° gave 72% quaternary salt, which (30.7 g.), kept  
3 hrs. at room temp., with 20.7 g. p-Me<sub>2</sub>NCH<sub>2</sub>NO<sub>2</sub>, 370 ml.  
EtOH, and 9.6 ml. N NaOH, clhd with 750 ml. H<sub>2</sub>O, kept  
20 hrs. with ice cooling, extd. with C<sub>6</sub>H<sub>6</sub>, and the nitro  
decomp'd. with 2N HCl gave 20.6% crude *methylcitra*,  
which after steam distn. had n<sub>D</sub> 1.4015, d<sub>4</sub> 0.9141. Alter-  
natively 50 g. uridopyine in 200 g. MeOH freed part of the  
solvent by distn. to 110°, heated on a steam bath 3 hrs., with  
68 g. terpine chlorides, and repeatedly treated with ure-  
idopyine gave an addn. of the Sonnenblick complex, which,  
treated with 100 g. formalin, said, with NaCl, and steaming  
distd. yielded 10 g. *methylectrin*, b.p. 92-9°, n<sub>D</sub> 1.4010. The  
Sonnenblick (7.5 g.), 12 g. MeCO, and 14.6 g. Na-  
SO<sub>4</sub> soln. stirred 72 hrs. at 18-25° and extd. with Et<sub>2</sub>O gave  
4.3 g. crude *pseudoisoe*, b.p. 124-6°, n<sub>D</sub> 1.6348, d<sub>4</sub> 0.9041.  
This (3.9 g.) in 70 ml. C<sub>6</sub>H<sub>6</sub> treated at 0° with Br<sub>2</sub> until  
said, the product cooled to 0°, treated with 80 ml. 8% Na-  
OH, and extd. with C<sub>6</sub>H<sub>6</sub>, then repeated with NaOH,  
yielded a range of fractions, b.p. 94-7°, with n<sub>D</sub> 1.6038-  
1.6002, and d<sub>4</sub> 0.9243, values agreeing with those of frame  
prepd. by cyclization with Br<sub>2</sub>. The pseudotetone prepd.  
above contains about 97% trans isomer, as shown by its  
phys. consts.

G. M. Kosolapoff

LETS KV

Distr: 4E4j/4E2c(j)

New synthesis of citral from (sourcet) K. V. Leets, A. I. Shumelko, A. A. Rozzenko, N. V. Kudryavtseva, and A. I. Pilyavskaya (Synthetic Perfumes Plant, Leningrad).  
*Zhur. Obshch. Khim.* 27, 1810-12 (1957). Indin. of 70 g. dry HCl to 400 g.  $\text{CH}_3\text{CMeCH}_2\text{CH}_3$ , followed by dist. with 707 g.  $\text{CH}_2\text{Cl}_2$  and addn. with cooling of 1 g.  $\text{SnCl}_4$ , and after 2 min. 20 g.  $\text{CO}(\text{NH}_2)_2$  gave, after filtration of pass. telomer, 93 g. products which yielded 50.5 g. terpenic chlorides,  $\text{C}_{10}\text{H}_8\text{Cl}_2$ , b.p. 60-65°. This (41.5 g.) in dry  $\text{Me}_2\text{CO}$  treated with 17 g. troponin 3 days yielded 31.6 g. quaternary salt,  $\text{C}_{10}\text{H}_{11}\text{NCl}$ . This (30 g.) in 1.2 l.  $\text{H}_2\text{O}$  was treated with 20 g. 30% formalin, refluxed 0.5 hr., and steam-distd., yielding 10 g. citral, b.p. 65-70°, which was converted to authentic pseudocitole and ionone. The  $\text{Me}_2\text{CO}$  soln. of residual chlorides after sepn. of the quaternary salt (above) was heated 2 hrs. with 10 g. troponine, the seed. crystals filtered off, the soln. evapd., the residual chloride hydrolyzed with eq. alc.  $\text{Pb}(\text{NO}_3)_2$  and  $\text{PbCO}_3$  3 hrs. at reflux, and the resulting alks. converted to the borates by treatment with  $(\text{BuO})_2\text{B}$ , which after sepn. by dist. and hydrolysis gave 8 g. terpenyl alc., identified as *d*-α-terpinol, m.p. 33°.

G. M. Knoblauch

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LEFETS, K.V.

AUTHORS: Lefets, K. V., Pilyavskaya, A. I., Korovkina, M. I. 79-11-11/56

TITLE: Determination of the Primary Chlorides of the Allyl Series in Mixtures With the Isomeric Tertiary Chlorides (Opredeleniye pervichnykh khloridov allil'nogo tipa v smesyakh s izomernymi tretichnymi khloridami).

PERIODICAL: Zhurnal Gbshchey Khimii, 1957, Vol. 27, Nr 11, pp. 2969-2972 (USSR).

ABSTRACT: As it is known the quantitative determination of the isomeric chlorides of the allyl series in its mixtures which form on hydrochlorination of the  $C_nH_{2n-2}$ -hydrocarbons (diyenovykh) [1-3] or on telomerization of the latter with halogen derivatives [4-6] with the aid of the usual chemical and physico-chemical methods is very inexact due to the easy isomerization. The determination hitherto made by means of the infrared spectra is lengthy and takes much time. In order to come to the quantitative determination of the allylchlorides in their mixtures in a chemico-quantitative way, the reaction kinetics of the isomeric hydrochlorides of isoprene-1-chloro-3-methylbutene-2  $(CH_3)_2C=CH-CH_2Cl$  and 2-chloro-2-methylbutene-3 in their mixtures with anhydrous potassium iodide in acetone is investigated. It was found that atropine in the presence of formalin acts with mineral

Card 1/2

Determination of the Primary Chlorides of the Allyl Series in Mixtures 79-11-11/56  
With the Isomeric Tertiary Chlorides.

acids like a primary base. Thus it was found that the primary allyl iodides react quantitatively equimolecularily with urotropin, so that they can be determined by titration of the urotropin residue against mineral acids in the presence of formalin. The reaction kinetics of potassium iodide upon 1-chloro-3-methylbutene-2, 2-chloro-2-methylbutene-3 in their mixture was investigated, as well as upon geranylchloride in a mixture with tertiary isomers. It was in this connection found that only primary allylchlorides enter into reaction with potassium iodide, so that they can quantitatively be determined in the presence of the tertiary isomers.

There are 2 figures, 1 table, and 9 references, 4 of which are Slavic.

ASSOCIATION. Leningrad Factory for Synthetical Aromatics (Leningradskiy zavod sinteticheskoy aromatiki).

SUBMITTED. November 16, 1956.

AVAILABLE. Library of Congress.

Card 2/2 1. Allyl chlorides-Determination

AUTHOR: Leets, K. V. SCV/73-28-7-2c/64

TITLE: On the Investigation of the Ionic-Catalytic Telomerization (K izucheniyu ionno-kataliticheskoy telomerizatsii) I. On the Telomerization of Isoprene With Its Hydrochlorides (I.O telomerizatsii izoprena s yego gidrokhloridami)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 7, pp. 1823 - 1826 (USSR)

ABSTRACT: In the present paper the author describes the experimental data and theoretical considerations which substantiate the importance of the breaking-off moment of the reaction to be one of the most important factors exerting an influence on the composition of the telomerization products of the halogen derivatives with diene compounds. The change of the composition of the products of telomerization of the isoprene with its hydrochlorides in dependence on the depth of reaction was investigated. The author used for this investigation a mixture of isoprene and its hydrochlorides which had been obtained by the hydrochlorination of isoprene with gaseous HCl (Ref 7) with the geranyl chloride having been determined as final product. Figure 1 shows the dependence

Card 1/3

On the Investigation of the Ionic-Catalytic Telomerization. I. On the Telomerization of Isoprene With Its Hydrochlorides

SOV/72-26-7-2c/64

of the composition of the product of telomerization on the depth of the reaction, and figure 2 shows the dependence of the geranyl chloride yield on the same factor. Methylene chloride was used as medium and anhydrous tin chloride was taken as catalyst. The depth of reaction thus appears to be a decisive factor determining the composition of the reaction product, with geranyl chloride predominating in the initial stages, and polyyterpene chloride and isomeric monoterpane chlorides in the final stages. The author proved the earlier maintenance on the necessity of the reaction break-off already in early stages in order to obtain the best yield of terpene chlorides in the above mentioned telomerization. There are 2 figures, 1 table, and 7 references, 6 of which are Soviet.

ASSOCIATION: Issledovatel'skaya laboratoriya Leningradskogo zavoda sinteticheskoy aromatiki (Research Laboratory of Leningrad Plants for Synthetic Aromatic Products)

SUBMITTED: June 13, 1957  
Card 2/3

On the Investigation of the Ionic-Catalytic Telo- SOV/79-18-7-29/64  
merization. I. On the Telomerization of Isoprene With Its Hydrochlorides

1. Isoprene--Chemical reactions 2. Chemical reactions--Analysis 3. Cyclohexanone  
chlorides--Chemical reactions 4. Tin chloride catalysts--Performance

Card 3/3

SGV/79-28-11-43/55

AUTHOR:

Leets, K.V.

TITLE:

On the Investigation of the Ion-Catalytic Telomerization  
(K izucheniyu ionno-kataliticheskoy telomerizatsii)  
II. On the Composition of the Fraction of Terpene Chlorides, the  
Product of the Telomerization of Isoprene With Its Hydrochlorides.  
Linalyl Chloride (II.O sostave fraktsii terpenovykh khloridov  
produkta telomerizatsii izoprena s vego gidrokhloridami.Linalil-  
khlorid)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 3096-3105 (USSR)

ABSTRACT:

The scope of the present paper is a detailed investigation of the fraction of the monoterpane chlorides ( $C_{10}$ ) obtained in the telomerization of isoprene with its hydrochlorides in the presence of the catalyst  $SnCl_4$ . Based on the investigated kinetics of the reaction of the terpene chloride mixture with various reagents a scheme for the separation of the isomers and their derivatives in the fraction  $C_{10}$  was devised and analytical methods of determining the purity of the individual isomeric chlorides were elaborated. The fraction  $C_{10}$  contains the linalyl chloride (7-8 %), lavendyl

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SOV/79-28-11-43/55

On the Investigation of the Ion-Catalytic Telomerization. On the Composition of the Fraction of Terpene Chlorides, the Product of the Telomerization of Isoprene With Its Hydrochlorides. Linalyl Chloride.

chloride (9-10 %) and the dimer of the initial chlorides of isoprene (9-10 %), besides the already earlier found geranyl chloride (52-56 %) and  $\alpha$ -terpinyl chloride (18-20 %) (Ref 2). In the telomerization of isoprene with its hydrochlorides, the affiliation of the chlorides to the isoprene takes place in the positions 1,2,1,4 and 3,4, as well as a cyclization and dimerization of the chlorides of the allyl type. In the telomerization of the isoprene with the halogen derivatives the allyl products of the affiliation can be obtained in good yields only if the reaction is untimely stopped. From the fraction C<sub>10</sub> the lavendyl chloride and  $\alpha$ -terpinyl

chloride were separated in free state. The geranyl chloride of the fraction C<sub>10</sub> is partially isomerized in a slower distillation at 120-130° into the linalyl chloride and is partly dehydrochlorinated under the formation of terpenes. A linalyl chloride was obtained by the isomerization of the geranyl chloride contained in the fraction C<sub>10</sub>. In the saponification of the linalyl chloride a

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SOV/79-28-11-43/55

On the Investigation of the Ion-Catalytic Telomerization. On the Composition of the Fraction of Terpene Chlorides, the Product of the Telomerization of Isoprene With Its Hydrochlorides. Linalyl Chloride.

mixture was obtained that consisted of geraniol and linaloöl (1:1). There are 2 figures, 1 table, and 25 references, 11 of which are Soviet.

ASSOCIATION: Issledovatel'skaya laboratoriya Leningradskogo zavoda sinteticheskoy aromatiki (Research Laboratory of the Leningrad Factory for Synthetic Aromatics)

SUBMITTED: September 28, 1957

Card 3/3

LEETS, K.V.

Ion-catalytic telomerization. Part 3: New method of separating primary allyl halo derivatives from a mixture of isomers. Geranyl chloride. Sesquiterpene chlorides. Zhur. ob. khim. 31 no. 6:1869-1876 Je '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv. aromatic substances  
(Sesquiterpene) (Octadiene) (Polymerization)

LEETS, K. [Леэts, K.], kand. khim. nauk; EPM, A.

Development of gas chromatographic methods for the analysis  
of hydroxy derivatives of terpenes. Izv. AN Est. SSR. Ser.  
fiz.-mat. i tekhn. nauk 13 no.1:57-63 '64 (MIRA 18:1)

1. Academy of Sciences of the Estonian S.S.R., Institute of  
Chemistry.

LFETS, K.V.; LIIV, E.Kh. [Liiv, F.]

Study of ion-catalytic telomerization. Part 4: Conductance of  
the medium in the telomerization reaction of isoprene with its  
hydrochloride. Zhur. org. khim. 1 no.4:626-630 Ap '65.  
(MIRA 18:11)

I. Institut khimi AN Estonskoy SSR.

KUDRYAVTSEV, I.; LEETS, K. [Laats, K.]; PETERSEN, L.

Synthesis of primary alcohols by hydroxymethylation of alkenes.  
Izv. AN Est. SSR. Ser. fiz.-mat. i tekhn. nauk 14 no. 4:635-641  
'65 (MIRA 19:2)

1. Institut khimii AN Estonskoy SSR. Submitted May 22, 1965.

LEF, YE, O.

Furnaces—Construction

Experience in constructing a pyrite furnace lined with fire-resisting reinforced concrete. Stroi. prom., 30, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

LEFAN, Karel

Seminar on mechanization and automation in geodesy, photogrammetry, and cartography. Geol pruzkum 5 no.8:254 Ag '63.

VOSAHLO, Jaroslav, inz.; LEFAN, Karel, inz.; STACH, Bretislav, inz.

For a higher standard of mine surveying. Rudy 10 no.11:369-370  
N '62.

1. Ministerstvo hutniho prumyslu a rudnych dolu (for Vosahlo).  
2. Ustredni geologicky urad (for Lefan). 3. Ministerstvo paliv  
a energetiky (for Stach).

LEEFAN, Karel, inz.

Methods of measurement operations in examining rock movements  
in the earth slide near Handlova. Geol pruzkum 5 no.10:310-311  
O '63.

1. Ustredni geologicky urad, Praha.

LEFAN, Karel

First National Mine Survey Conference. Geol pruzkum 6  
no. 7:220-221 J1 '64.

JELINEK, Miloslav, inz.; LEFAN, Karel, inz.

Maps of raw material deposits. Geod kart obzor 10 no. 9/10:  
229-231 0 '64.

LEFAN, Karel, inz.

Problems of mine surveying in geological services. Geol prizm 6  
no.11:337-338 N '64.

1. Central Geological Office, Prague.

LEFAROV, A. Kh.

USSR/Engineering - Spur gears

Card 1/1 : Pub. 12 - 4/16

Authors : Lefarov, A. Kh.

Title : Side clearances of spur-gear meshings

Periodical : Avt. trakt. prom. 6, 10-14, June 1954

Abstract : An account is given of designing spur gears with required and allowable side clearances. Mathematical tabulations are given for calculating circular pitch, radial distances and backlash. Diagrams; drawings.

Institution : .....

Submitted : .....

L 56540-65  
ACCESSION NR: AP5016786

UR/0286/65/000/010/0119/0119  
629.113—585.2

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B

AUTHOR: Lefarov, A. Kh.; Sheinker, I. G.; Girko, M. D.; Gubitskiy, A. A.

TITLE: A transmission, Class 63, No. 171278

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 119

TOPIC TAGS: transmission, engine equipment, clutch

ABSTRACT: This Author's Certificate introduces: 1. A transmission designed principally for trucks and caterpillar tractors. Provision is made for shifting gears without interrupting the power flow by using multidisc friction clutches mounted on rotating shafts. The unit contains an input shaft, two coaxial output shafts which are joined by a differential and are parallel to the input shaft, and intermediate shafts, one coaxial with the input shaft and one with the output shaft. The transmission has relatively small overall dimensions. The first intermediate shaft, which is not coaxial with the input shaft, is hollow and encircles one of the output shafts, which passes through it. This intermediate shaft has a multidisc friction clutch mounted on it. The driven elements of this clutch are connected to the dif-

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ACCESSION NR: AP5016786

ferential housing, while the drive elements are connected to the first intermediate shaft. The differential housing is connected through continuously engaged gears to the intermediate shaft which is coaxial with the input shaft. These gears are engaged by the multidisc friction clutch mounted on the intermediate shaft. 2. A modification of this transmission with reduced axial dimensions. The multidisc friction clutch mounted on the intermediate shaft which is coaxial with the input shaft is a double clutch in the form of two separate multidisc friction clutches. The clutch housings are connected to the drive elements, and the common hub for the clutches, which is connected to the driven elements, has a gear which is rigidly connected to the differential housing.

ASSOCIATION: none

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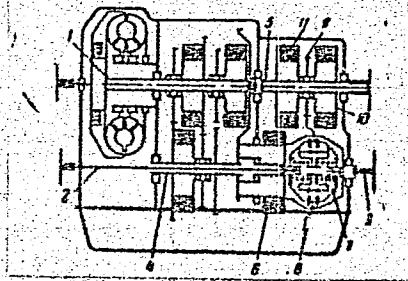


Fig. 1. 1--input shaft; 2 and 3--output shaft; 4 and 5--intermediate shaft; 6--multidisc friction clutch; 7--differential housing; 8 and 9--constantly engaged gears; 10 and 11--multidisc friction clutch housings

Card 3/3

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STEPANOVA, Yelizaveta Alekseyevna, inzh.; LEFAROV, Anatoliy Khristoforovich, inzh.; GOL'D, B.V., doktor tekhn.nauk, retezentent; FESTA, G.A., inzh., red.; AVSHAROVA, Ye.G., red.izd-va; SMIRNOVA, G.V., tekhn.red.

[Blocking differentials used in motortrucks] Blokiruiushchiesia differentialsly gruzovykh avtomobilei. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 126 p.

(Motortrucks)

(MIRA 13:12)

LEFAROV, A.Kh.

New blocking differentials. Avt.prom. no.12:4-7 D '60.

(MIRA 13:12)

l. Minskiy avtozavod.

(Automobiles—Transmission devices)

LEFAROV, A. Kh.

Cand Tech Sci - (diss) "Blocking blokiruyushchiyesya differentials and passability of motor vehicles." Minsk, 1961. 23 pp; (Ministry of Higher, Secondary Specialist, and Professional Education Belorussian SSR, Belo Polytechnic Inst imeni I. V. Stalin); 200 copies; price not given; (KL, 7-61 sup, 239)

LEFAROV, A.Kh., kand.tekhn.nauk

Using blocking differentials. Avt.prom. 28 no.11:16-18 N  
'62. (MIRA 16:1)

1. Minskiy avtozavod.  
(Motor vehicles--Axles)

Lefeld, M.

POLAND/Solid State Physics - Structural Crystallography

E-4

Abs Jour : Ref Zhur - Fizika, No 3, 1958, No 5847

Author : Auleytner J., Lefeld, M.

Inst : Not Given

Title : Anisotropic Small-Angle Scattering of X-rays in Graphite

Orig Pub : Bull. Acad. polon, sci., 1957, Cl. 3, 5, No 3, 291-294, XXIV

Abstract : It is shown that the small-angle scattering of X-rays in pressed specimens of powdered graphite, in which the crystallites have a definite orientation, is anisotropic. Taking into account the dimensions of the regions with the electronic density it is concluded that the small-angle scattering is due not to the grains of graphite but to pores in these grains.

Card : 1/1

3465.1 PARAMETER OF DISORDER  $p$  AND THE INTERLAYER DISTANCE  $d_{\text{int}}$  IN HIGHLY GRAPHITISED ARTIFICIAL GRAPHITES  
M. Lofeld.

Bull. Acad. Polon. Sci. Cl. 3, Vol. 5, No. 5, 497-503 (1957).

The shape of the (112) line in the X-ray diffraction patterns from various samples of artificial graphites and from a sample of Ceylon graphite, has been examined. A parameter  $p$  (which is related to the intensity and the spacing  $d$ ) is calculated by comparing the observed line shape with a theoretical one. It is shown that there is a linear relationship between this parameter  $p$  (i.e. the degree of disorder) and the value of the spacing  $d_{\text{int}}$ ; the value of  $d_{\text{int}}$  decreases as the disorder decreases (see Abstr. 6530/1951). J. Inall

AMF

COUNTRY : POLAND  
CATEGORY : Chemical Technology, Chemical Products & their  
manufacturing, Chemical processing of Solid Fuels  
ABG. AGOR. : RZENKOW, No. 19,1999, No. 021-89  
AUTHOR : Lefel A-Sosnowska, E.  
INSTITUTION :  
TITLE : Structure of Coal + G-Cokes  
NAME, PUB. : Poland, U.S.S.R., G, No. P., 750-57  
ABSTRACT : Structure of the carbonized and non-carbonized  
coke is discussed. Model structures are proposed.  
Photomicrographs including 11 titles. -Dr. Sosnowska

\* Funds.

Report

1/1

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